velleman®

CAMCOLMS

Referencia Electrónica Embajadores: ED6A001

DIGITAL MICROSCOPE
DIGITALE MICROSCOOP
MICROSCOPE NUMÉRIQUE
MICROSCOPIO DIGITAL
DIGITALES MIKROSKOP

USER MANUAL
GEBRUIKERSHANDLEIDING
NOTICE D'EMPLOI
MANUAL DEL USUARIO
BEDIENUNGSANLEITUNG

CE

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CAMCOLMS – DIGITAL MICROSCOPE

1. Introduction

To all residents of the European Union
Important environmental information about this product

This symbol on the device or the package indicates that disposal of the device after its lifecycle could harm the environment. Do not dispose of the unit (or batteries) as unsorted municipal waste; it should be taken to a specialized company for recycling. This device should be returned to your distributor or to a local recycling service. Respect the local environmental rules.
If in doubt, contact your local waste disposal authorities.

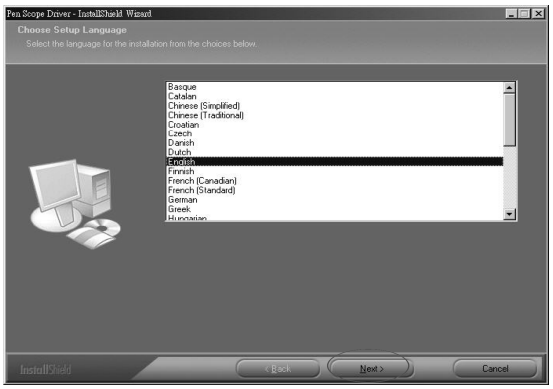
Thank you for choosing Velleman! Please read the manual thoroughly before bringing this device into service. If the device was damaged in transit, do not install or use it and contact your dealer.

2. System Requirements

- Pentium® MMX™ 200MHz with 32MB RAM or higher
- Windows® 98/ME/2000/XP/Vista
- free USB 2.0 or USB 1.1 port
- DirectX® 8.0 or higher

3. Installing the Driver

- Make sure the microscope is not connected to the computer. Insert the included CD-ROM into the CD-ROM drive of your computer. Select your language and click [**Next**].



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- Click [**Next**]. After the driver installation is completed, you will be asked to restart your computer. This is not necessary but recommended.

Pen Scope Driver Setup
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed Pen Scope Driver. Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup, connect PC camera to USB port after computer restarted.
InstallShield
< Back
Finish
Cancel

4. Installing the Microscope

- Connect the microscope to the computer through a USB port. A wizard will pop up. Choose not to search for software and click [**Next**].

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

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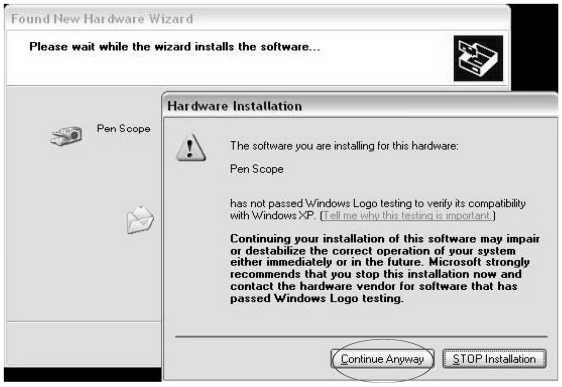
- Your computer automatically finds the connected microscope. Click [**Install the software automatically (Recommended)**] and click [**Next**] to continue the installation.

Found New Hardware Wizard
This wizard helps you install software for:
Pen Scope
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

- Wait for the installation procedure to complete. Click [**Continue Anyway**] when following window pops up.


Found New Hardware Wizard
Please wait while the wizard installs the software...
Pen Scope
Hardware Installation
The software you are installing for this hardware:
Pen Scope
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

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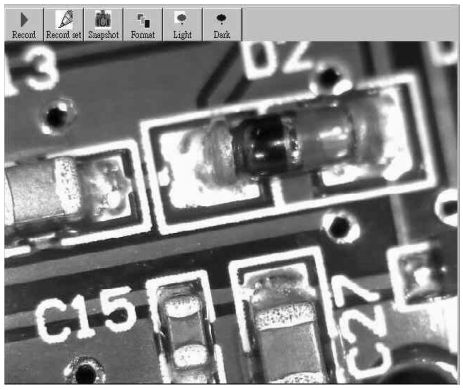
- Click [**Finish**] to complete your installation. Note that the microscope must only be connected to the USB port at time of installation. The computer will not recognize the microscope when connected to a different USB port.

5. Operating Instructions

- Place the microscope perpendicularly with and near the object to be viewed. Turn the adjustment wheel slowly to obtain as clear an image as possible.



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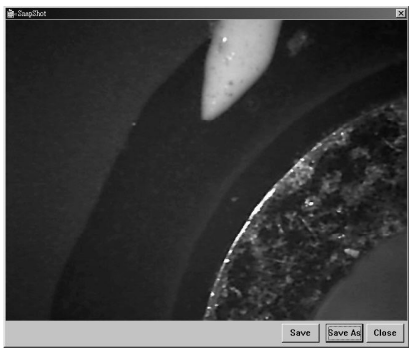
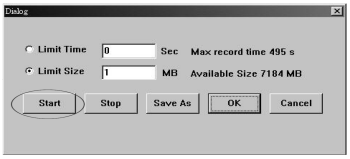
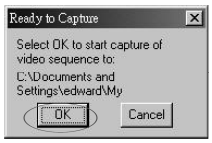
Click [**Snapshot**] to capture the screen. This screen capture can be saved as a JPEG or BMP file (JPG default). To do so, click [**Save**]. The file will be stored automatically in [**My Documents\PEN SCOPE\SNAPSHOT**] according to the following format: 070517001.JPG (07 = year, 05 = month, 17 = day, 001 = snapshot number, JPG = file format). Click [**Save As**] to configure the file name.



Click [**Record**] to make a recording.

Click [**Record Set**] to make a recording according to your own specifications. Set the recording time and file size limit, click [**Start**] and [**OK**] to start recording. Click [**Save As**] to save the recording. The file will be stored automatically in [**My Documents\PEN SCOPE\RECORDING**] according to the following format: 070517001.AVI (07 = year, 05 = month, 17 = day, 001 = recording number, AVI = file format).





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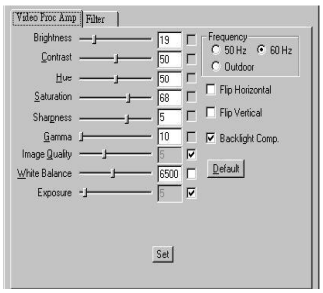
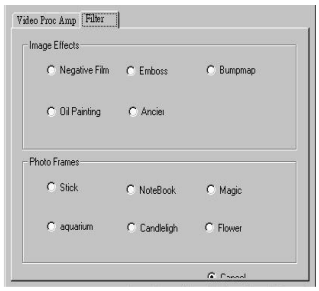
Click [**Format**] to configure your screen settings or to add effects.





Click [**Light**] or [**Dark**] to switch the microscope on or off.

6. Technical Specifications

Image Sensor	CMOS
Number of Pixels	300,000
Effective Pixels	645 (H) x 485 (V)
Input Interface	USB 1.1 or 2.0
Magnification Rate	50x / 200x
Min. Illumination	10 ~ 20 lux / F2.8 – 5,600K
S/N Ratio	42dB
Cable Length	1.2m
White Balance	auto
White Balance Range	2,800 ~ 11,000K
Iris Aperture	AES
Shutter	1/30 ~ 1/15,750 sec
Picture Format	JPEG / BMP
Power Consumption	65 ~ 100mA
Dimensions	Ø 38 x 165mm
Weight	128g

Use this device with original accessories only. Velleman nv cannot be held responsible in the event of damage, injury or data loss resulted from (incorrect) use of this device.

For more info concerning this product, please visit our website www.velleman.eu.
The information in this manual is subject to change without prior notice.

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1. Inleiding

Referencia Electrónica Embajadores: ED6A001

Aan alle ingezetenen van de Europese Unie
Belangrijke milieu-informatie betreffende dit product

Dit symbool op het toestel of de verpakking geeft aan dat, als het na zijn levenscyclus wordt weggeworpen, dit toestel schade kan toebrengen aan het milieu. Gooi dit toestel (en eventuele batterijen) niet bij het gewone huishoudelijke afval; het moet bij een gespecialiseerd bedrijf terechtkomen voor recyclage. U moet dit toestel naar uw verdeler of naar een lokaal recyclagepunt brengen. Respecteer de plaatselijke milieuwetgeving.

Hebt u vragen, contacteer dan de plaatselijke autoriteiten inzake verwijdering.

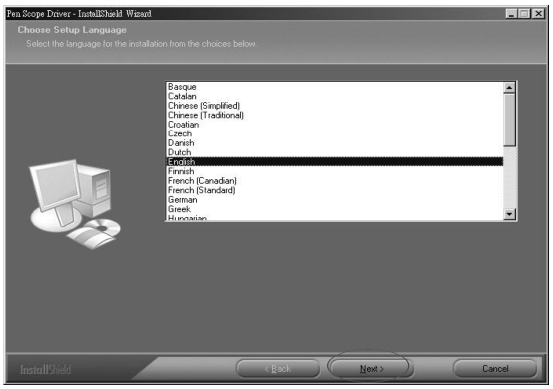
Dank u voor uw aankoop! Lees deze handleiding grondig voor u het toestel in gebruik neemt. Werd het toestel beschadigd tijdens het transport, installeer het dan niet en raadpleeg uw dealer.

2. Systeemvereisten

- Pentium® MMX™ 200 MHz met 32 MB RAM of hoger
- Windows® 98/ME/2000/XP/Vista
- vrije usb-poort (1.1 of 2.0)
- DirectX® 8.0 of hoger

3. Installatie van de driver

- Ontkoppel de microscoop van de computer. Plaats de meegeleverde cd-rom in de cd-romdrive. Kies uw taal en klik op [**Next**].



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- Klik op [**Next**]. Na de installatieprocedure wordt u gevraagd of u de computer wenst te herstarten. Dit is niet verplicht maar wel aan te raden.

Pen Scope Driver Setup
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed Pen Scope Driver. Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup, connect PC camera to USB port after computer restarted.
InstallShield
< Back
Finish
Cancel

4. Installatie van de microscoop

- Koppel de microscoop aan de computer via een usb-poort. Er verschijnt een wizard. Kies ervoor geen software-update uit te voeren en klik op [**Next**].

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

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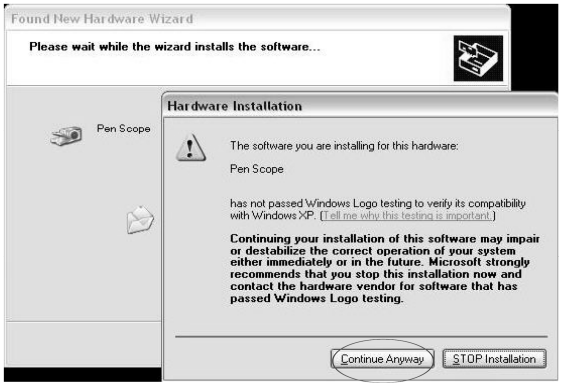
- De computer herkent de microscoop automatisch. Klik op [**Install the software automatically (Recommended)**] en klik op [**Next**] om verder te gaan met de installatie.

Found New Hardware Wizard
This wizard helps you install software for:
Pen Scope
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

- Onderbeek de installatieprocedure niet. Bij het verschijnen van dit venster klikt u op [**Continue Anyway**].


Found New Hardware Wizard
Please wait while the wizard installs the software...
Pen Scope
Hardware Installation
The software you are installing for this hardware:
Pen Scope
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

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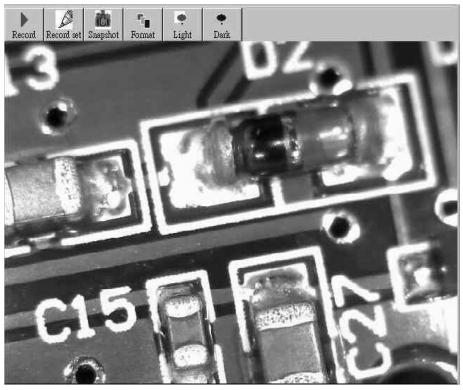
- Klik op [**Finish**] om de installatie te vervolledigen. Let op: koppel de microscoop steeds in de usb-poort die u hebt gebruikt tijdens de installatie. De computer herkent de microscoop niet indien u hem met een andere poort koppelt.

5. Gebruiksinstructies

- Plaats de microscoop loodrecht en dicht bij het voorwerp. Draai zachtjes aan het instelwiel om een zo helder mogelijk beeld te verkrijgen.



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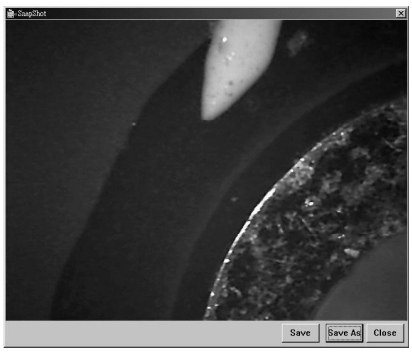
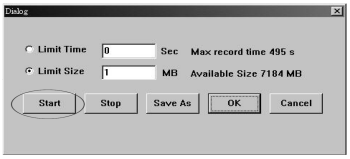
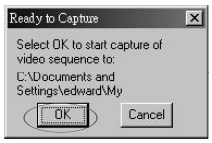
Klik op [**Snapshot**] om een beeld vast te leggen. Deze momentopname kan opgeslagen worden als een JPEG- of BMP-bestand (JPG standaard). Klik hiervoor op [**Save**]. Het bestand wordt automatisch opgeslagen in [**My Documents\PEN SCOPE\SNAPSHOT**] volgens dit formaat: 070517001.JPG (07 = jaar, 05 = maand, 17 = dag, 001 = nummer, JPG = bestandformaat). Klik op [**Save As**] om zelf een bestandsnaam in te geven.



Klik op [**Record**] om de beelden als een filmpje op te nemen.

Klik op [**Record Set**] om de beelden als een filmpje op te nemen volgens eigen instellingen. Bepaal de opnameduur en de toegelaten bestandsgrootte, klik op [**Start**] en op [**OK**] om de opname te starten. Klik op [**Save As**] om de opname op te slaan. Het bestand wordt automatisch opgeslagen in [**My Documents\PEN SCOPE\RECORDING**] volgens dit formaat: 070517001.AVI (07 = jaar, 05 = maand, 17 = dag, 001 = nummer, AVI = bestandformaat).





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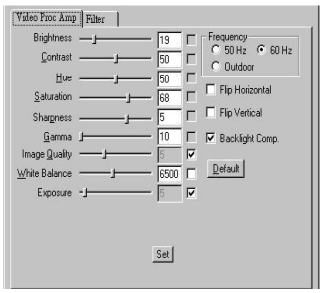
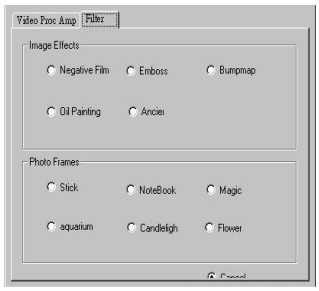
Klik op [**Format**] om uw scherminstellingen te configureren of om effecten toe te voegen.





Klik op [**Light**] of op [**Dark**] om de microscoop in of uit te schakelen.

6. Technische specificaties

Opneemelement	CMOS
Aantal pixels	300.000
Effectieve pixels	645 (H) x 485 (V)
Interface	USB 1.1 of 2.0
Vergroting	50x / 200x
Min. verlichting	10 ~ 20 lux / F2,8 – 5.600 K
S/R-verhouding	42 dB
Kabellengte	1,2 m
Witbalans	automatisch
Bereik witbalans	2.800 ~ 11.000 K
Apertuur	AES
Sluiter	1/30 ~ 1/15.750 sec.
Beeldformaat	JPEG / BMP
Verbruik	65 ~ 100 mA
Afmetingen	Ø 38 x 165 mm
Gewicht	128 g

Gebruik dit toestel enkel met originele accessoires. Velleman nv is niet aansprakelijk voor schade, kwetsuren of verlies van data bij (verkeerd) gebruik van dit toestel.

Voor meer informatie omtrent dit product, zie www.velleman.eu.
De informatie in deze handleiding kan te allen tijde worden gewijzigd zonder voorafgaande kennisgeving.

www.electronicaembajadores.com

CAMCOLMS – MICROSCOPE NUMÉRIQUE

1. Introduction

Referencia Electrónica Embajadores: ED6A001

Aux résidents de l'Union européenne
Des informations environnementales importantes concernant ce produit

Ce symbole sur l'appareil ou l'emballage indique que l'élimination d'un appareil en fin de vie peut polluer l'environnement. Ne pas jeter un appareil électrique ou électronique (et des piles éventuelles) parmi les déchets municipaux non sujets au tri sélectif ; une déchèterie traitera l'appareil en question. Renvoyer les équipements usagés à votre fournisseur ou à un service de recyclage local. Il convient de respecter la réglementation locale relative à la protection de l'environnement.

En cas de questions, contacter les autorités locales pour élimination.

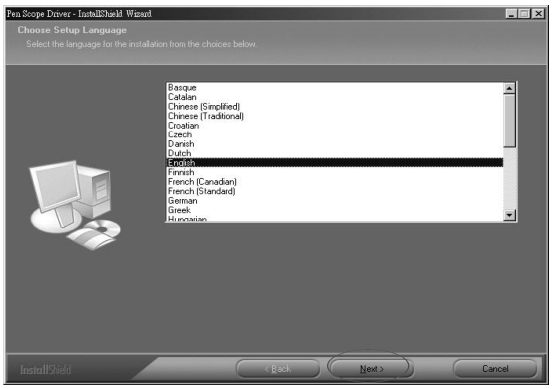
Nous vous remercions de votre achat ! Lire la présente notice attentivement avant la mise en service de l'appareil. Si l'appareil a été endommagé pendant le transport, ne pas l'installer et consulter votre revendeur.

2. Système requis

- Pentium® MMX™ 200 MHz avec 32 Mo de mémoire RAM ou plus
- Windows® 98/ME/2000/XP/Vista
- port USB 2.0 ou USB 1.1 libre
- DirectX® 8.0 ou plus

3. Installation du pilote

- Débrancher le microscope de l'ordinateur. Insérer le cédérom dans le lecteur de votre ordinateur. Sélectionner la langue et cliquer sur [**Next**].



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- Cliquer sur [**Next**]. Une fois la procédure d'installation terminée, un redémarrage de l'ordinateur n'est pas nécessaire mais recommandé.

Pen Scope Driver Setup
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed Pen Scope Driver. Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup, connect PC camera to USB port after computer restarted.
InstallShield
< Back
Finish
Cancel

4. Installation du microscope

- Brancher le microscope à un port USB de votre ordinateur. Un assistant apparaît. Choisir de ne pas effectuer de recherche de logiciel et cliquer sur [**Next**].

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

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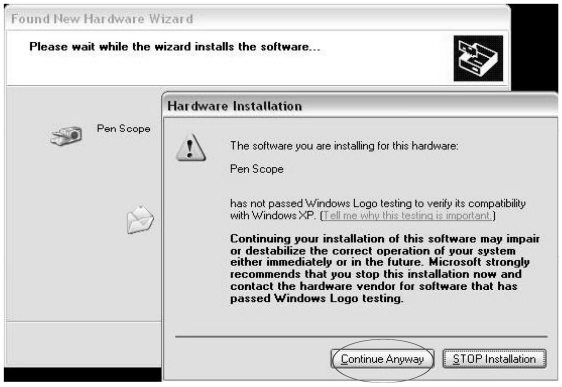
- L'ordinateur reconnaît automatiquement le microscope connecté. Cliquer sur [**Install the software automatically (Recommended)**] et cliquer sur [**Next**] pour poursuivre la procédure d'installation.

Found New Hardware Wizard
This wizard helps you install software for:
Pen Scope
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

- Ne pas interrompre la procédure d'installation. Cliquer sur [**Continue Anyway**] lorsque cette fenêtre apparaît.


Found New Hardware Wizard
Please wait while the wizard installs the software...
Pen Scope
Hardware Installation
The software you are installing for this hardware:
Pen Scope
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

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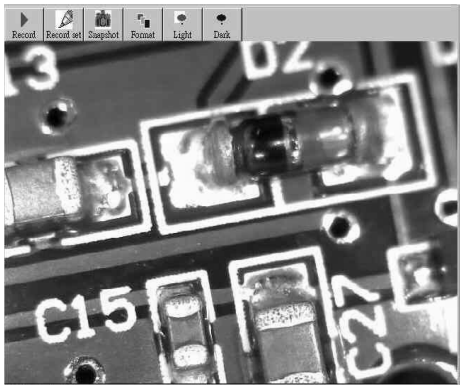
- Terminer l'installation en cliquant sur [**Finish**]. Attention : ne brancher le microscope que sur le port d'installation. L'ordinateur ne reconnaîtra pas le microscope lorsqu'il est branché sur un autre port USB.

5. Instructions d'utilisation

- Porter le microscope près de l'objet à inspecter et le tenir de façon perpendiculaire par rapport à l'objet. Tourner lentement la roue de mise au point afin d'obtenir une image nette.



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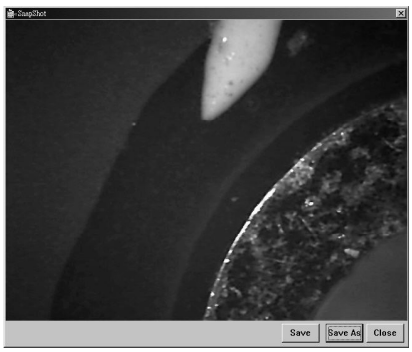
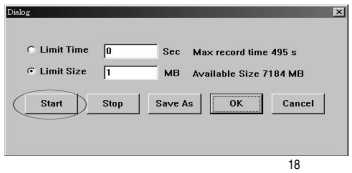
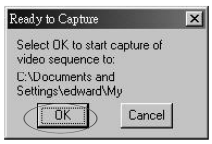
Cliquer sur [**Snapshot**] pour effectuer une capture d'écran. Cette capture d'écran peut être sauvegardée comme un fichier JPEG ou BMP (JPG par défaut) en cliquant sur [**Save**]. Le fichier sera automatiquement sauvegardée dans [**My Documents\PEN SCOPE\SNAPSHOT**] et aura le format suivant : 070517001.JPG (07 = année, 05 = mois, 17 = jour, 001 = numéro de capture, JPG = format du fichier). Cliquer sur [**Save As**] pour configurer le nom du fichier.



Cliquer sur [**Record**] pour effectuer un enregistrement.

Cliquer sur [**Record Set**] pour effectuer un enregistrement selon vos propres spécifications. Configurer la durée de l'enregistrement et la taille maximale du fichier, cliquer sur [**Start**] et sur [**OK**] pour démarrer l'enregistrement. Cliquer sur [**Save As**] pour sauvegarder l'enregistrement. Le fichier sera automatiquement sauvegardée dans [**My Documents\PEN SCOPE\RECORDING**] et aura le format suivant : 070517001.AVI (07 = année, 05 = mois, 17 = jour, 001 = numéro de capture, AVI = format du fichier).





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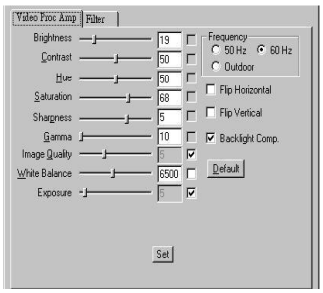
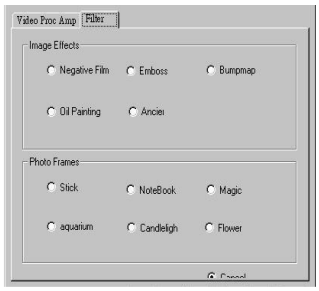
Cliquer sur [**Format**] pour configurer les valeurs d'écran et pour éditer votre capture d'écran.





Cliquer sur [**Light**] ou sur [**Dark**] pour éteindre ou pour allumer le microscope.

6. Spécifications techniques

Capteur	CMOS
Nombre de pixels	300.000
Pixels effectifs	645 (H) x 485 (V)
Interface	USB 1.1 ou 2.0
Grandissement	50x / 200x
Éclairement min.	10 ~ 20 lux / F2,8 – 5.600 K
Rapport S/B	42 dB
Longueur du câble	1,2 m
Balance des blancs	automatique
Gamme de balance des blancs	2.800 ~ 11.000 K
Ouverture	AES
Obturateur	1/30 ~ 1/15.750 sec
Format de l'image	JPEG / BMP
Consommation	65 ~ 100 mA
Dimensions	Ø 38 x 165 mm
Poids	128 g

N'employer cet appareil qu'avec des accessoires d'origine. SA Velleman ne sera aucunement responsable de dommages, lésions ou perte de données survenus à un usage (incorrect) de cet appareil.

Pour plus d'information concernant cet article, visitez notre site web www.velleman.eu.
Toutes les informations présentées dans cette notice peuvent être modifiées sans notification préalable.

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1. Introducción

Referencia Electrónica Embajadores: ED6A001

A los ciudadanos de la Unión Europea
Importantes informaciones sobre el medio ambiente concerniente a este producto

Este símbolo en este aparato o el embalaje indica que, si tira las muestras inservibles, podrían dañar el medio ambiente.
No tire este aparato (ni las pilas, si las hubiera) en la basura doméstica; debe ir a una empresa especializada en reciclaje. Devuelva este aparato a su distribuidor o a la unidad de reciclaje local.
Respete las leyes locales en relación con el medio ambiente.
Si tiene dudas, contacte con las autoridades locales para residuos.

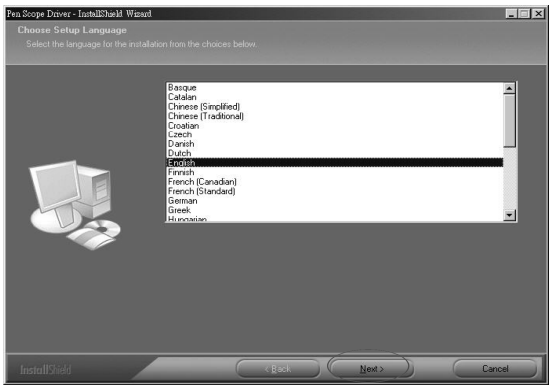
¡Gracias por haber comprado el **CAMCOLMS**! Lea atentamente las instrucciones del manual antes de usarlo. Si el aparato ha sufrido algún daño en el transporte no lo instale y póngase en contacto con su distribuidor.

2. Exigencias del sistema

- Pentium® MMX™ 200 MHz con 32 MB de memoria RAM o superior
- Windows® 98/ME/2000/XP/Vista
- puerto USB 2.0 o USB 1.1 libre
- DirectX® 8.0 o superior

3. Instalar el driver

- Desconecte el microscopio del ordenador. Introduzca el CD-ROM en el lector del ordenador. Seleccione el idioma y haga click en [**Next**].



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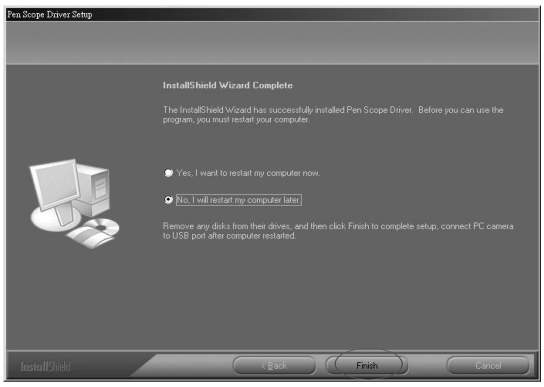
- Haga click en [**Next**]. Después de haber terminado la instalación y reinicialice el ordenador. No es necesario pero recomendado.


Pen Scope Driver Setup
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed Pen Scope Driver. Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup, connect PC camera to USB port after computer restarted.
InstallShield
< Back
Finish
Cancel

4. Instalar el microscopio

- Conecte el microscopio a un puerto USB del ordenador. Un asistente aparece. Seleccione 'no efectuar una búsqueda de software' y haga click en [**Next**].

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

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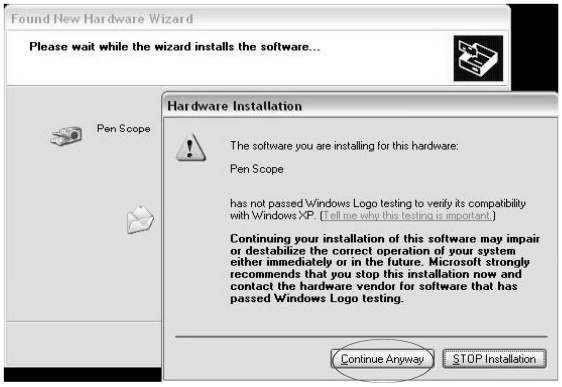
- El ordenador reconoce automáticamente el microscopio conectado. Haga click en [**Install the software automatically (Recommended)**] y haga click en [**Next**] para seguir el procedimiento de instalación.

Found New Hardware Wizard
This wizard helps you install software for:
Pen Scope
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

- No interrumpa el procedimiento de instalación. Haga click en [**Continue Anyway**] si aparece esta pantalla.


Found New Hardware Wizard
Please wait while the wizard installs the software...
Pen Scope
Hardware Installation
The software you are installing for this hardware:
Pen Scope
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

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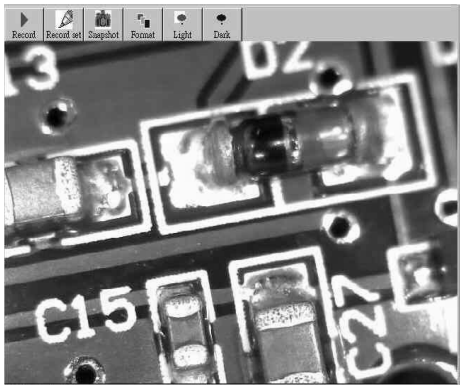
- Termine la instalación al hacer click en [**Finish**]. ¡Ojo!: Conecte el microscopio sólo al puerto de instalación. El ordenador no reconocerá el microscopio si está conectado a otro puerto USB.

5. Instrucciones de uso

- Ponga el microscopio cerca del objeto que quiere inspeccionar y manténgalo de manera perpendicular con respecto al objeto. Gire lentamente la rueda de ajuste para obtener una imagen nítida.



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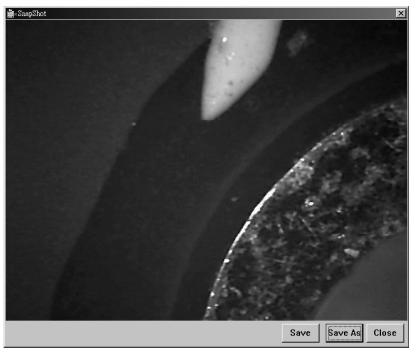
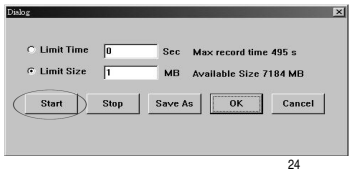
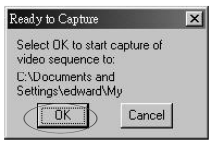
Haga click en [**Snapshot**] para efectuar una captura de la pantalla. Es posible guardar esta captura de pantalla como fichero JPEG o BMP (JPG por defecto) al hacer click en [**Save**]. El fichero se guardará automáticamente en [**My Documents\PEN SCOPE\SNAPSHOT**] y tendrá el formato siguiente: 070517001.JPG (07 = año, 05 = mes, 17 = día, 001 = número de captura, JPG = formato del fichero). Haga click en [**Save As**] para ajustar el nombre del fichero.



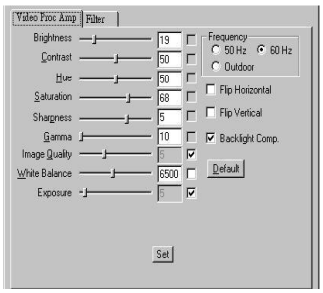
Haga click en [**Record**] para efectuar una grabación.

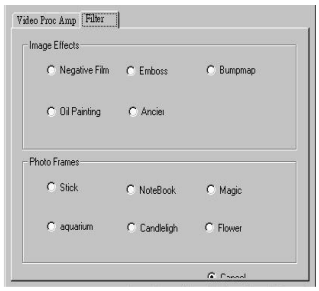
Haga click en [**Record Set**] para efectuar una grabación según sus propias especificaciones. Ajuste la duración de la grabación y el tamaño máx. del fichero, haga click en [**Start**] y en [**OK**] para activar la grabación. Haga click en [**Save As**] para guardar la grabación. El fichero se guardará automáticamente en [**My Documents\PEN SCOPE\RECORDING**] y tendrá el formato siguiente: 070517001.AVI (07 = año, 05 = mes, 17 = día, 001 = número de captura, AVI = formato de fichero).





Haga click en [**Format**] para ajustar los valores de pantalla y para editar la captura de pantalla.





Haga click en [**Light**] o [**Dark**] para desactivar o activar el microscopio.

6. Especificaciones

Sensor	CMOS
Número de píxeles	300.000
Píxeles efectivos	645 (H) x 485 (V)
Interfaz	USB 1.1 ó 2.0
Ampliación	50x / 200x
Iluminación mínima	10 ~ 20 lux / F2,8 – 5.600K
Relación señal / ruido	42dB
Longitud del cable	1,2m
Balance des blancos	automático
Rango balance de blancos	2.800 ~ 11.000K
Iris	AES
Shutter	1/30 ~ 1/15.750 seg.
Formato de la imagen	JPEG / BMP
Consumo	65 ~ 100mA
Dimensiones	Ø 38 x 165mm
Peso	128 g

Utilice este aparato sólo con los accesorios originales. Velleman Spain SL no será responsable de daños ni lesiones causados por un uso (indebido) de este aparato.

Para más información sobre este producto, visite nuestra página web www.velleman.eu.
Se pueden modificar las especificaciones y el contenido de este manual sin previo aviso.

CAMCOLMS – DIGITALES MIKROSKOP

1. Einführung

Referencia Electrónica Embajadores: ED6A001

An alle Einwohner der Europäischen Union
Wichtige Umweltinformationen über dieses Produkt
Dieses Symbol auf dem Produkt oder der Verpackung zeigt an, dass die Entsorgung dieses Produktes nach seinem Lebenszyklus der Umwelt Schaden zufügen kann.

Entsorgen Sie die Einheit (oder verwendeten Batterien) nicht als unsortiertes Hausmüll; die Einheit oder verwendeten Batterien müssen von einer spezialisierten Firma zwecks Recycling entsorgt werden. Diese Einheit muss an den Händler oder ein örtliches Recycling-Unternehmen retourniert werden. Respektieren Sie die örtlichen Umweltvorschriften.
Falls Zweifel bestehen, wenden Sie sich für Entsorgungsrichtlinien an Ihre örtliche Behörde.

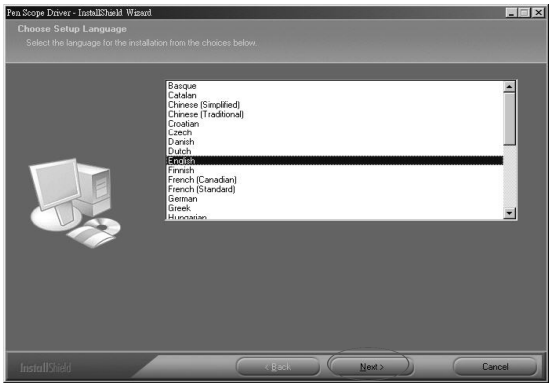
Wir bedanken uns für den Kauf des **CAMCOLMS**! Lesen Sie diese Bedienungsanleitung vor Inbetriebnahme sorgfältig durch. Überprüfen Sie, ob Transportschäden vorliegen. Sollte dies der Fall sein, verwenden Sie das Gerät nicht und wenden Sie sich an Ihren Händler.

2. Systemvoraussetzungen

- Pentium® MMX™ 200 MHz mit 32 MB RAM oder höher
- Windows® 98/ME/2000/XP/Vista
- freier USB-Port (1.1 oder 2.0)
- DirectX® 8.0 oder höher

3. Den Treiber installieren

- Trennen Sie das Mikroskop vom Computer. Legen Sie das mitgeliefert CD-ROM in das CD-ROM-Laufwerk. Wählen Sie die Sprache en klicken Sie auf [**Next**].



- Klicken Sie auf [**Next**]. Nach dem Installationsverfahren wird gefragt, ob Sie den Computer neu starten möchten. Dies ist nicht verpflichtet aber wohl empfohlen.

Pen Scope Driver Setup
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed Pen Scope Driver. Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup, connect PC camera to USB port after computer restarted.
InstallShield
< Back
Finish
Cancel

4. Das Mikroskop installieren

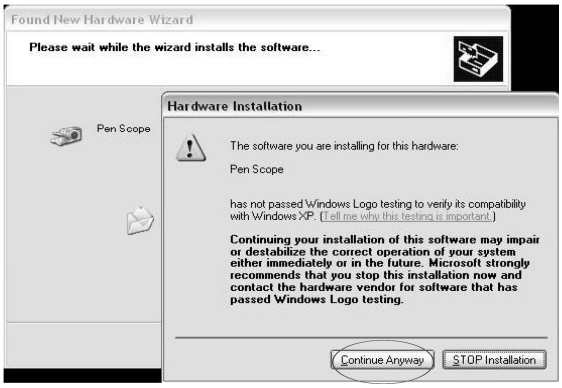
- Verbinden Sie das Mikroskop über einen USB-Port mit dem Computer. Es erscheint einen Wizard. Wählen Sie dafür, dass Sie kein Software-Update ausführen möchten und klicken Sie auf [**Next**].

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

- Der Computer erkennt das Mikroskop automatisch. Klicken Sie auf [**Install the software automatically (Recommended)**] und klicken Sie auf [**Next**] um mit der Installation weiter zu gehen.

Found New Hardware Wizard
This wizard helps you install software for:
Pen Scope
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

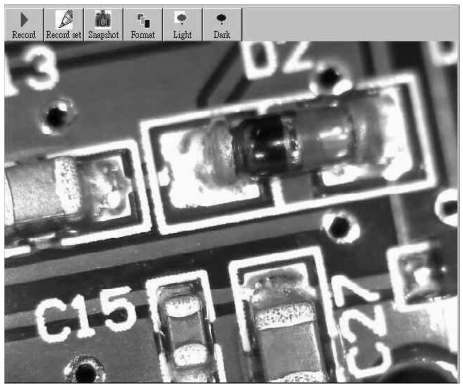
- Unterbrechen Sie das Installationsverfahren nicht. Wenn folgendes Fenster erscheint, klicken Sie auf [**Continue Anyway**].


Found New Hardware Wizard
Please wait while the wizard installs the software...
Pen Scope
Hardware Installation
The software you are installing for this hardware:
Pen Scope
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

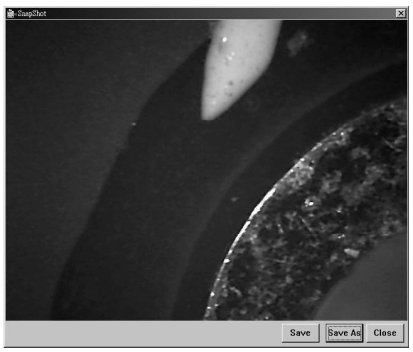
- Klicken Sie auf [**Finish**] um die Installation zu beenden. Achtung: Verbinden Sie das Mikroskop immer mit dem USB-Port, den Sie während der Installation verwendet haben. Der Computer erkennt das Mikroskop nicht wenn Sie es mit einem anderen Port verbinden.

5. Bedienungsanleitung

- Stellen Sie das Mikroskop senkrecht und dicht beim Gegenstand. Drehen Sie den Regulierungsrad vorsichtig, um so ein möglichst helles Bild zu bekommen.

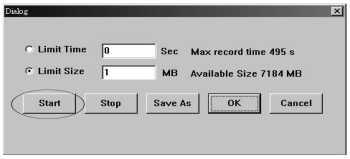


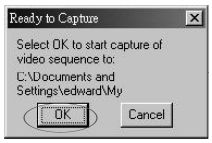
Klicken Sie auf [**Snapshot**] um ein Bild festzulegen. Diese Momentaufnahme kann als eine JPEG- oder BMP-Datei (JPG Standard) gespeichert werden. Klicken Sie hierfür auf [**Save**]. Die Datei wird automatisch in [**My Documents\PEN SCOPE\SNAPSHOT**] gemäß diesem Format gespeichert: 070517001.JPG (07 = Jahr, 05 = Monat, 17 = Tag, 001 = Nummer, JPG = Dateiformat). Klicken Sie auf [**Save As**] um selber einen Dateinamen einzugeben.



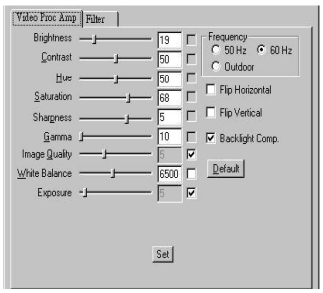
Klicken Sie auf [**Record**] um die Bilder als Film aufzunehmen.

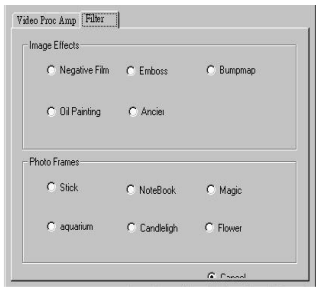
Klicken Sie auf [**Record Set**] um die Bilder gemäß eigenen Einstellungen als Film aufzunehmen. Bestimmen Sie die Aufnahmedauer und die erlaubte Dateigröße, klicken Sie auf [**Start**] und auf [**OK**] um die Aufnahme zu starten. Klicken Sie auf [**Save As**] um die Aufnahme zu speichern. Die Datei wird automatisch in [**My Documents\PEN SCOPE\RECORDING**] gemäß diesem Format gespeichert: 070517001.AVI (07 = Jahr, 05 = Monat, 17 = Tag, 001 = Nummer, AVI = Dateiformat).





Klicken Sie auf [**Format**] um die Schirmeinstellungen zu konfigurieren oder Effekte hinzuzufügen.





Klicken Sie auf [**Light**] oder auf [**Dark**] um das Mikroskop ein- oder auszuschalten.

6. Technische Daten

Aufnahme-Element	CMOS
Anzahl der Pixel	300.000
Pixelanzahl	645 (H) x 485 (V)
Schnittstelle	USB 1.1 oder 2.0
Vergrößerung	50x / 200x
Mindestbeleuchtung	10 ~ 20lux / F2,8 – 5.600K
Signal-/Rauschabstand	42dB
Kabellänge	1,2m
Weißabgleich	automatisch
Bereich Weißabgleich	2.800 ~ 11.000 K
Blende	AES
Shutter	1/30 ~ 1/15.750 Sek.
Bildformat	JPEG / BMP
Verbrauch	65 ~ 100mA
Abmessungen	Ø 38 x 165mm
Gewicht	128 g

Verwenden Sie dieses Gerät nur mit originellen Zubehörteilen. Velleman NV übernimmt keine Haftung für Schaden oder Verletzungen bei (falscher) Anwendung dieses Gerätes.

Für mehr Informationen zu diesem Produkt, siehe www.velleman.eu.
Alle Änderungen ohne vorherige Ankündigung vorbehalten.